Ning Li (physicist)

Ning Li is a Chinese-American scientist known for her controversial claims about anti-gravity devices. She worked as a physicist at the Center for Space Plasma and Aeronomic Research, University of Alabama in Huntsville, in the 1990s. In 1999, she left the university to form a company, AC Gravity, LLC, to continue anti-gravity research.

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Anti-gravity claims

In a series of papers co-authored with fellow university physicist Douglas Torr and published between 1991 and 1993, she claimed a practical way to produce anti-gravity effects. She claimed that an anti-gravity effect could be produced by rotating ions creating a gravitomagnetic field perpendicular to their spin axis. In her theory, if a large number of ions could be aligned, (in a Bose–Einstein condensate) the resulting effect would be a very strong gravitomagnetic field producing a strong repulsive force. The alignment may be possible by trapping superconductor ions in a lattice structure in a high-temperature superconducting disc. Li claimed that experimental results confirmed her theories.[1][2][3] Her claim of having functional anti-gravity devices was cited by the popular press and in popular science magazines with some enthusiasm at the time.[4][5] However, in 1997 Li published a paper describing an experiment that showed the effect was very small, if it existed at all.[6]

Li is reported to have left the University of Alabama in 1999 to found the company *AC Gravity LLC*. AC Gravity was awarded a U.S. DOD grant for $448,970 in 2001 to continue anti-gravity research. The grant period ended in 2002 but no results from this research were ever made public.[7] Although no evidence exists that the company ever performed any other work, as of 2020, AC Gravity still remains listed as an extant business.[8]

See also

- Eugene Podkletnov

References

1. Li, Ning; Torr, DG (January 15, 1991). "Effects of a gravitomagnetic field on pure superconductors". *Physical Review*. **D43** (2): 457–459. Bibcode:1991PhRvD..43..457L (https://ui.adsabs.harvard.edu/abs/1991PhRvD..43..457L). doi:10.1103/PhysRevD.43.457 (https://doi.org/10.1103%2FPhysRevD.43.457). PMID 10013404 (https://pubmed.ncbi.nlm.nih.gov/10013404).

2. Li, Ning; Torr, DG (September 1, 1992). "Gravitational effects on the magnetic attenuation of superconductors". *Physical Review*. **B46** (9): 5489–5495. Bibcode:1992PhRvB..46.5489L (https://ui.adsabs.harvard.edu/abs/1992PhRvB..46.5489L). doi:10.1103/PhysRevB.46.5489 (https://doi.org/10.1103%2FPhysRevB.46.5489). PMID 10004334 (https://pubmed.ncbi.nlm.nih.gov/10004334).
3. Li, Ning; Torr, DG (August 1, 1993). "Gravito-electric coupling via superconductivity". *Foundations of Physics Letters*. **6** (4): 371–383. Bibcode:1993FoPhL...6..371T (https://ui.adsabs.harvard.edu/abs/1993FoPhL...6..371T). doi:10.1007/BF00665654 (https://doi.org/10.1007%2FBF00665654). S2CID 122075917 (https://api.semanticscholar.org/CorpusID:122075917).
4. Wilson, Jim (October 1, 2000). "Taming Gravity" (https://web.archive.org/web/20121105040310/http://www.highbeam.com/doc/1G1-65730414.html). *Popular Mechanics*. Archived from the original (http://www.highbeam.com/doc/1G1-65730414.html) on November 5, 2012. Retrieved January 5, 2014.
5. Cain, Jeanette. "Gravity Conquered?" (https://web.archive.org/web/20130706031149/http://www.light-science.com/gen2.html). light-science.com. Archived from the original (http://www.light-science.com/gen2.html) on July 6, 2013. Retrieved January 5, 2014.
6. N. Li; D. Noever; T. Robertson; R. Koczor; et al. (August 1997). "Static Test for a Gravitational Force Coupled to Type II YBCO Superconductors". *Physica C*. **281** (2–3): 260–267. Bibcode:1997PhyC..281..260L (https://ui.adsabs.harvard.edu/abs/1997PhyC..281..260L). doi:10.1016/S0921-4534(97)01462-7 (https://doi.org/10.1016%2FS0921-4534%2897%2901462-7).
7. "Annual Report on Cooperative Agreements and Other Transactions Entered into During FY2001 Under 10 USC 2371" (http://www.acq.osd.mil/dpap/Docs/FY01RPT.doc). DOD. p. 66. Retrieved March 6, 2014.
8. "Business Entity Details, AC Gravity, LLC" (http://arc-sos.state.al.us/cgi/corpdetail.mbr/detail?corp=603063&page=name&file=). Alabama, Secretary of State. Retrieved March 6, 2014.

External links

- Breaking the Law of Gravity (https://www.wired.com/wired/archive/6.03/antigravity_pr.html) A 1998 Wired magazine article reviewing her work, as well as others.
- Bose-Einstein and Anti-Gravity (http://www.scansite.org/scan.php?pid=157) (Archived (https://web.archive.org/web/20180501055747/http://www.scansite.org/scan.php?pid=157) May 1, 2018, at the Wayback Machine) A narrative of Li's theory of operation and her future plans from the 1990s.

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